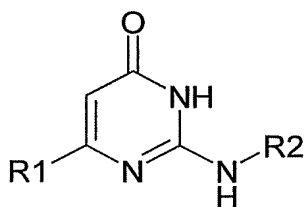


# Amendments to the claims

This listing of the claims replaces all prior versions, or listings, of the claims.

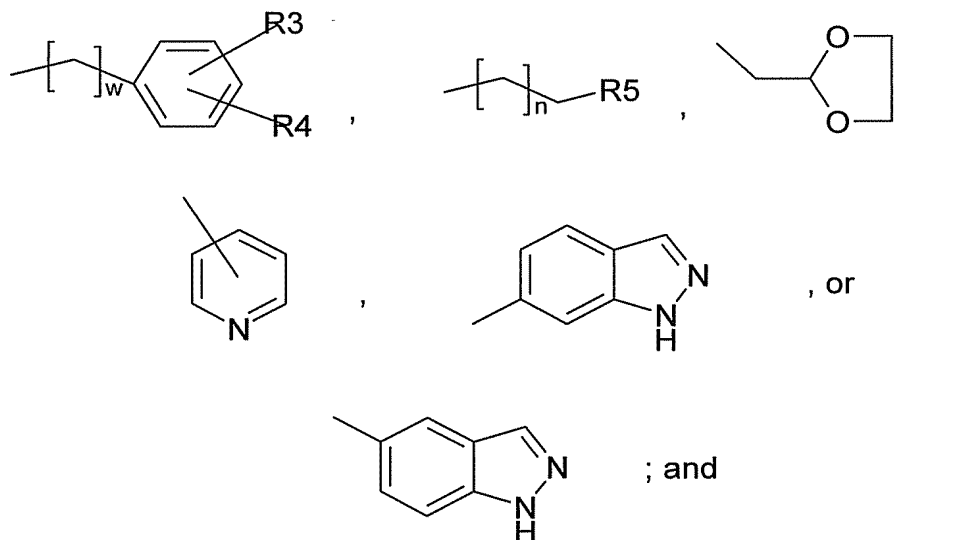
1. (CURRENTLY AMENDED) A compound of the formula I, or a salt[[,]] ~~solvate, or a~~  
physiologically functional derivative thereof



(I)

in which

R2 is a radical of the formula

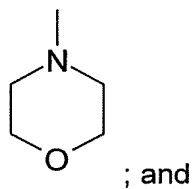


in which

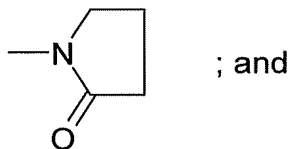
$n = 1 - 2$ ;

$w = 0 - 2$ ;

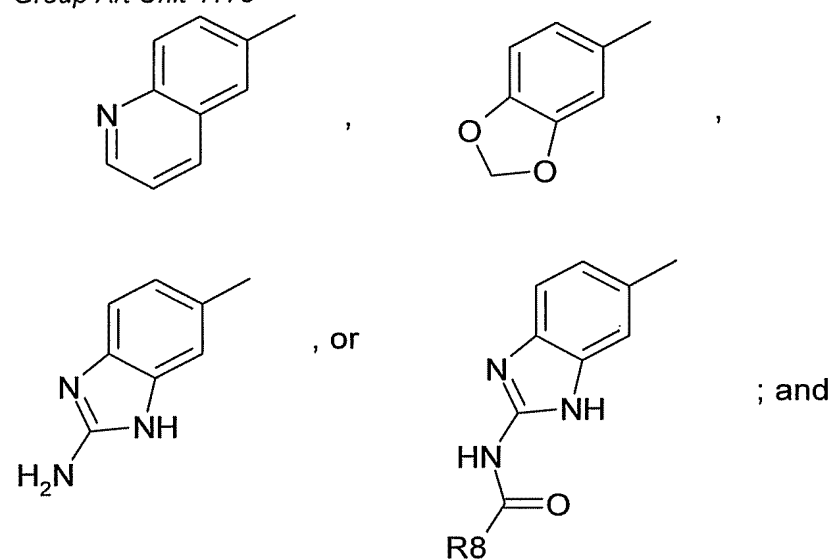
R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -C<sub>1-6</sub>alkyl, -(C=O)-OEt, -NH(C=O)-CH<sub>3</sub>, or a radical of the formula



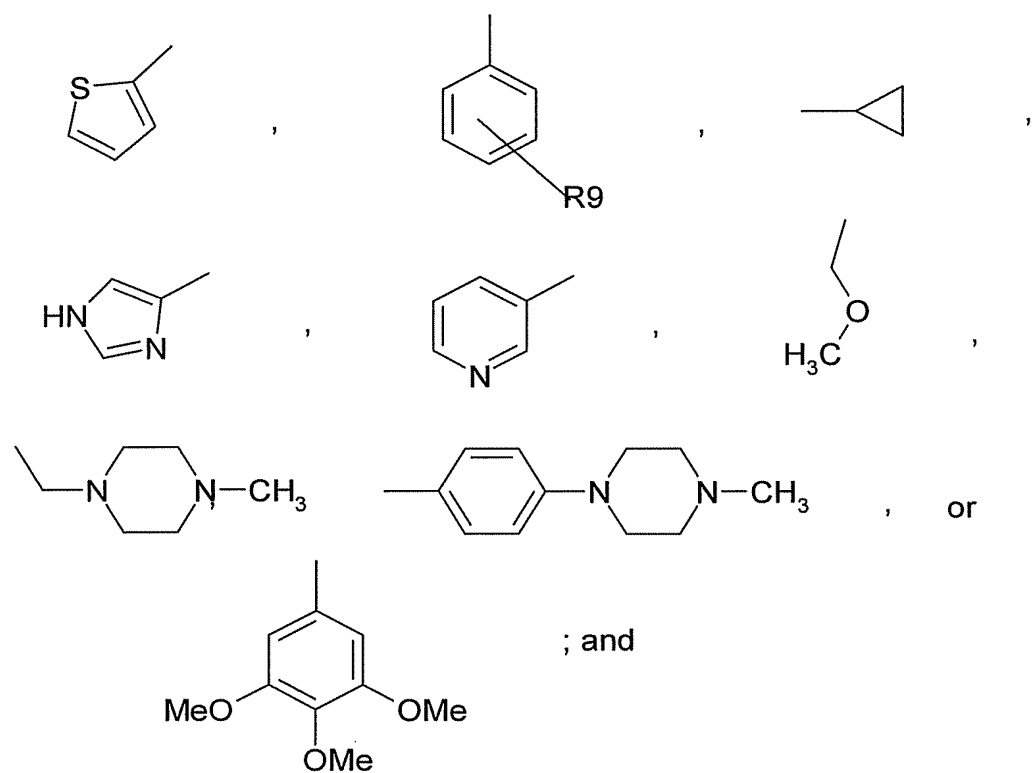
R5 is -NH<sub>2</sub>, hydrogen, -OR6, -N(R6)(R7), or a radical of the formula



R1 is a radical of the formula



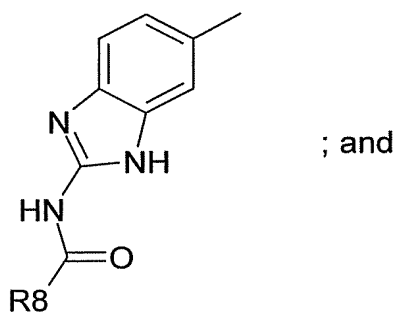
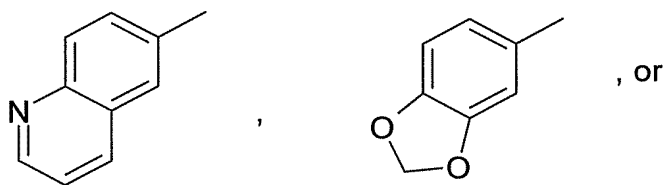
R8 is a radical of the formula



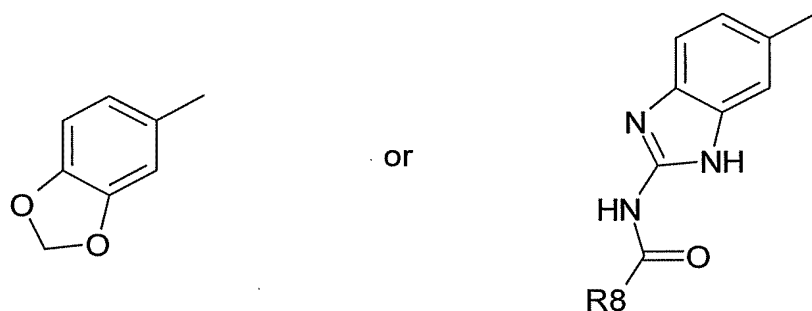
R9 is -NH(C=O)CH<sub>3</sub>, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>N(R6)(R7); and

R6 and R7 are independently C<sub>1-6</sub>alkyl.

2. (ORIGINAL) A compound of claim 1 in which R1 is a radical of the formula



3. (WITHDRAWN) A compound of claim 2 in which R<sub>1</sub> is a radical of the formula



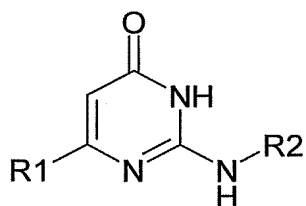
4. (WITHDRAWN) A compound of claim 3 in which R<sub>8</sub> is 2-thienyl.

5. (CANCELED)

6. (CANCELED)

7. (CANCELED)

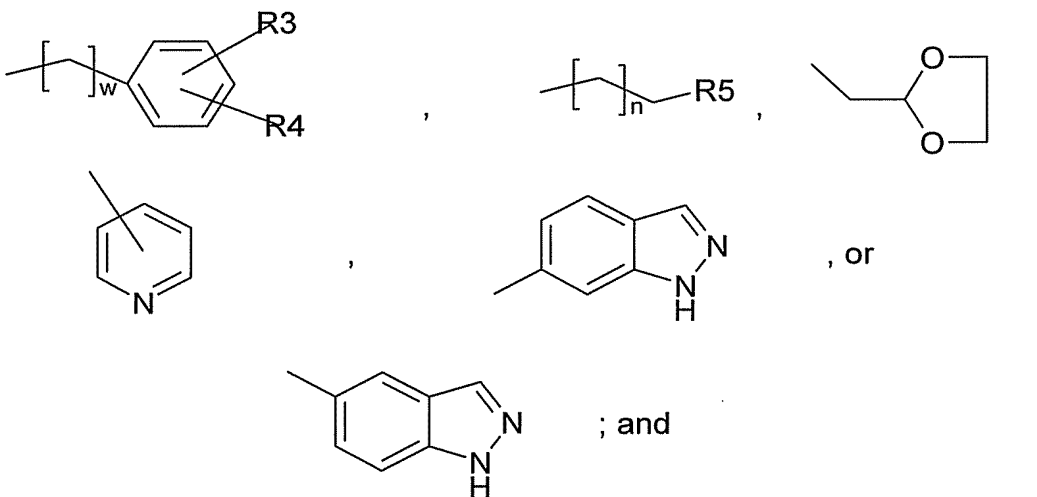
8. (CURRENTLY AMENDED) A method of treating ~~or preventing~~ diseases selected from the group consisting of: anemia, aplastic anemia, myelodysplastic syndrome, myelosuppression, and cytopenia; comprising, administering to a mammal a therapeutically effective amount of a compound formula I, or a salt[,], ~~solvate, or a physiologically functional derivative thereof~~



I

in which

R2 is a radical of the formula

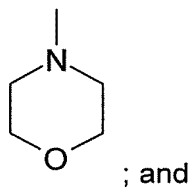


in which

$n = 1 - 2$ ;

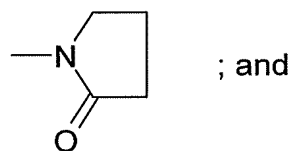
$w = 0 - 2$ ;

R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO<sub>2</sub>NH<sub>2</sub>, -OH, -C<sub>1-6</sub>alkyl, -(C=O)-OEt, -NH(C=O)-CH<sub>3</sub>, or a radical of the formula

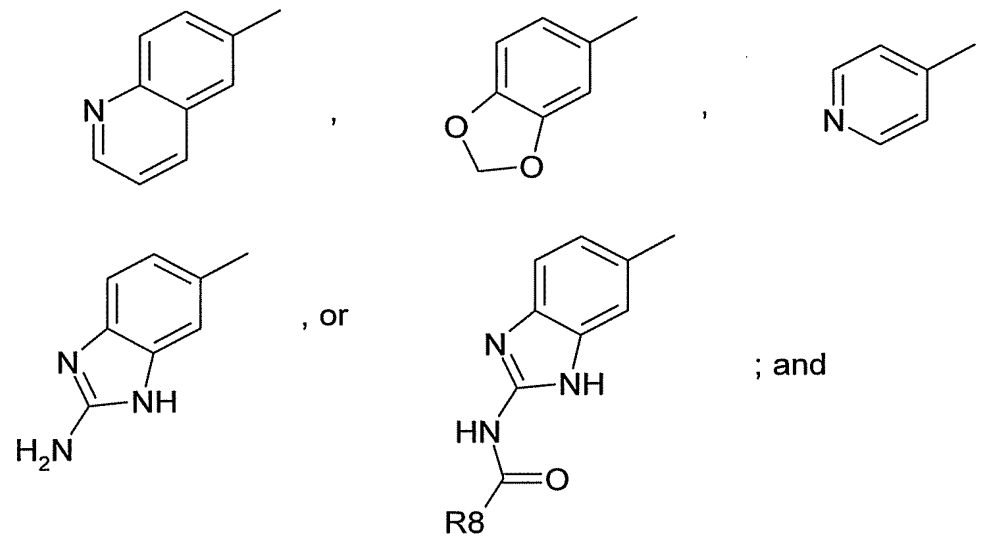


; and

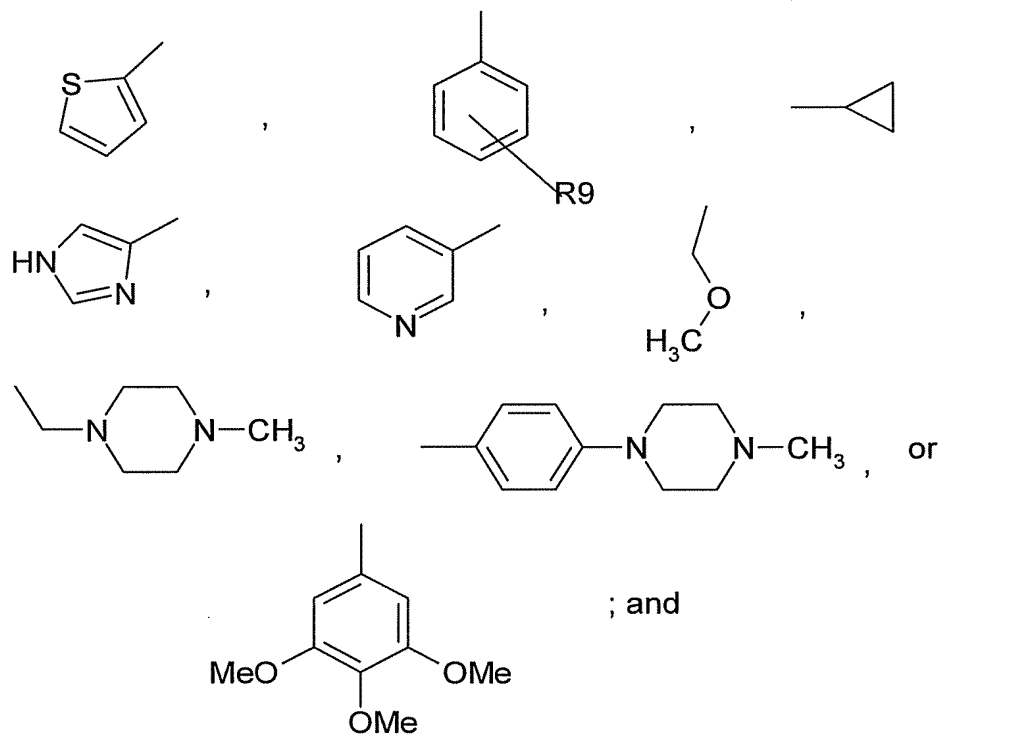
R5 is -NH<sub>2</sub>, hydrogen, -OR6, -N(R6)(R7), or a radical of the formula



R1 is a radical of the formula



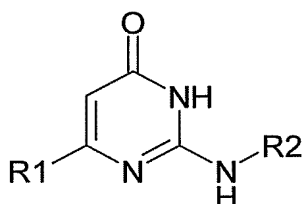
R8 is a radical of the formula



R9 is -NH(C=O)CH<sub>3</sub>, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>N(R6)(R7); and

R6 and R7 are independently C<sub>1-6</sub>alkyl.

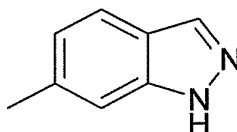
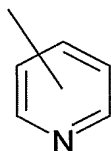
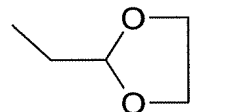
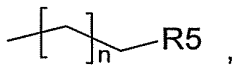
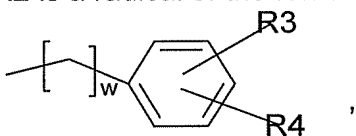
9. (CURRENTLY AMENDED) A pharmaceutical composition including a therapeutically effective amount of a compound formula I, or a salt~~[[,]]~~ solvate, or a physiologically functional derivative thereof, and one or more pharmaceutically acceptable carriers, diluents and excipients



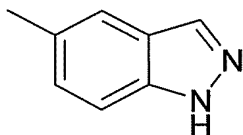
I

in which

R2 is a radical of the formula



, or



; and

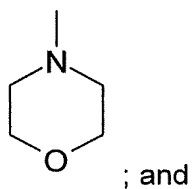
in which

n = 1 - 2;

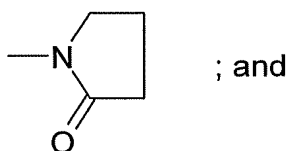
w = 0 - 2;

R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO<sub>2</sub>NH<sub>2</sub>, -OH,

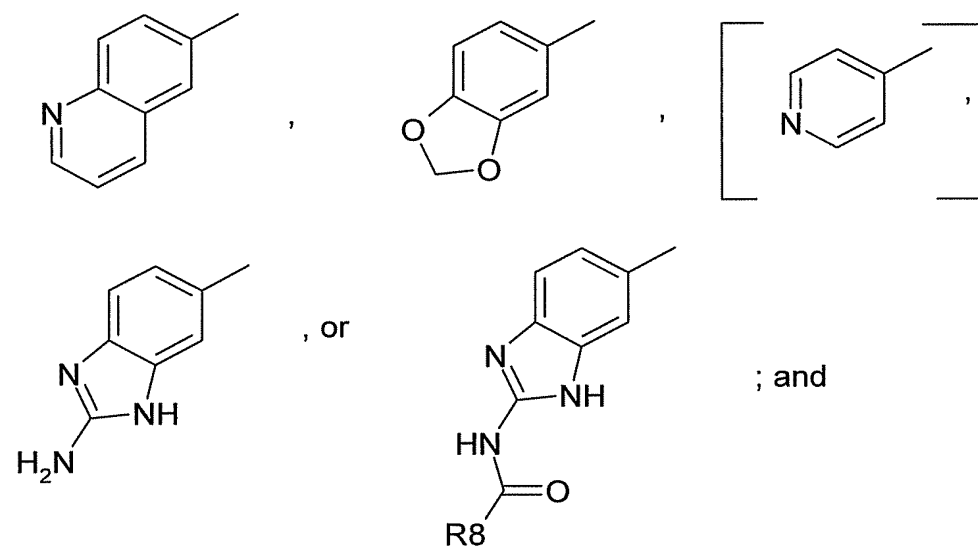
-C<sub>1-6</sub>alkyl, -(C=O)-OEt, -NH(C=O)-CH<sub>3</sub>, or a radical of the formula



R<sub>5</sub> is -NH<sub>2</sub>, hydrogen, -OR<sub>6</sub>, -N(R<sub>6</sub>)(R<sub>7</sub>), or a radical of the formula

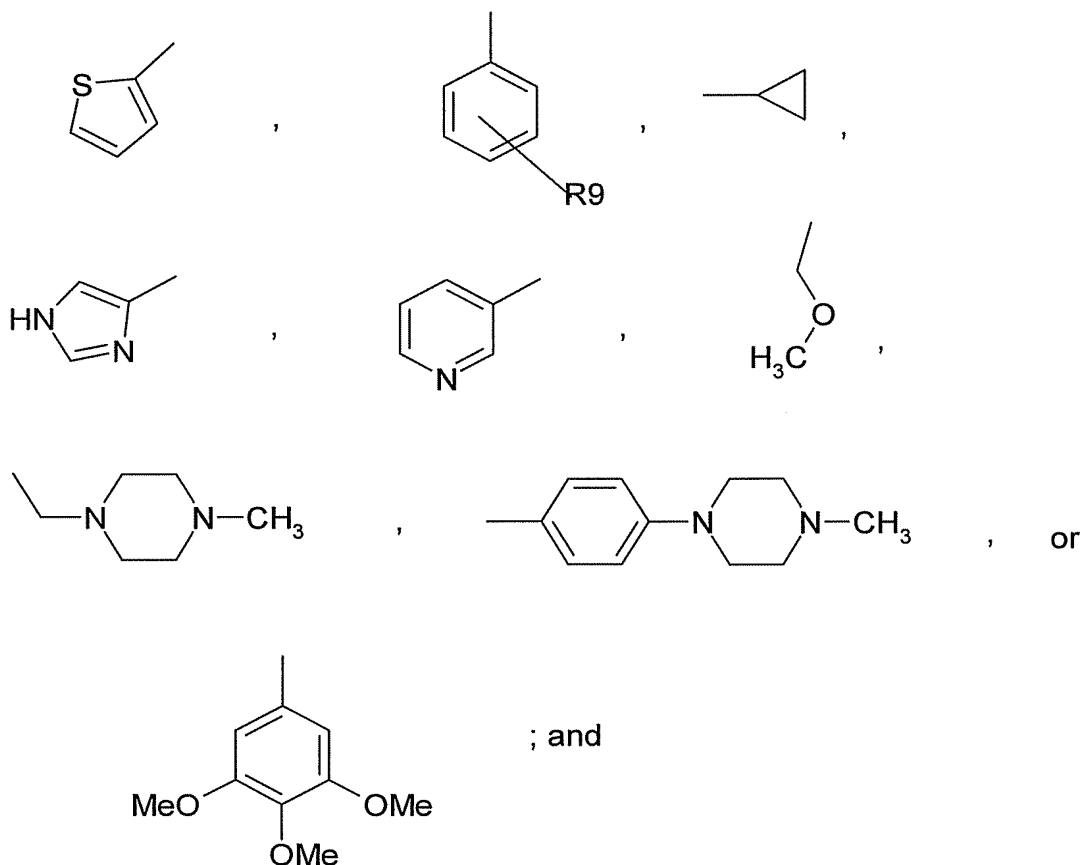


R<sub>1</sub> is a radical of the formula



R<sub>8</sub> is a radical of the formula





R9 is -NH(C=O)CH<sub>3</sub>, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>N(R6)(R7); and

R6 and R7 are independently C<sub>1-6</sub>alkyl.

10. (CURRENTLY AMENDED) A compound selected from the group consisting of:

- 2-(2-Amino-ethylamino)-6-quinolin-6-yl-3H-pyrimidin-4-one;
- 2-(2-Dimethylamino-ethylamino)-6-quinolin-6-yl-1H-pyrimidin-4-one;
- 2-(3-Methoxy-benzylamino)-6-quinolin-6-yl-1H-pyrimidin-4-one;
- 2-[[2,6-Bis(methoxy)phenyl]amino]-6-(6-quinolinyl)-4(1H)-pyrimidinone;
- N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;
- N-{5-[6-Oxo-2-(4-pyridinylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-[5-(2-[[3-(Aminosulfonyl)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-{5-[6-Oxo-2-(phenylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-(5-{2-[(3-Hydroxyphenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-{5-[2-(1H-Indazol-6-ylamino)-6-oxo-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-[5-(2-[[4-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(Methyloxy)ethyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[3-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[3-(Dimethylamino)propyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(2,4-Dichlorophenyl)ethyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(4-Morpholinyl)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-(5-{2-[(2-Fluorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-(5-{2-[(2,5-Dichlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-{5-[2-(Ethylamino)-6-oxo-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-(5-{2-[(2-Methylphenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-[5-(6-Oxo-2-[[3-(2-oxo-1-pyrrolidinyl)propyl]amino]-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-(5-{2-[(1,3-Dioxolan-2-ylmethyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

3-(Acetylamino)-N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)benzamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)cyclopropanecarboxamide;  
4-(Aminosulfonyl)-N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)benzamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-4-[(dipropylamino)sulfonyl]benzamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-1H-imidazole-4-carboxamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-3,4,5-tris(methyloxy)benzamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-3-pyridinecarboxamide;  
N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-(methyloxy)acetamide;  
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-(4-methyl-1-piperazinyl)acetamide;  
4-(4-Methyl-1-piperazinyl)-N-{5-[6-oxo-2-(phenylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}benzamide;  
6-(2-Amino-1H-benzimidazol-5-yl)-2-([3-(methyloxy)phenyl]methyl)amino)-4(1H)-pyrimidinone;  
N-{5-[2-([3-(Methyloxy)phenyl]methyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;  
6-Benzo[1,3]dioxol-5-yl-2-(3-methoxy-benzylamino)-1H-pyrimidin-4-one;  
6-(1,3-Benzodioxol-5-yl)-2-(1H-indazol-5-ylamino)-4(1H)-pyrimidinone;  
6-(1,3-Benzodioxol-5-yl)-2-([3-(methyloxy)phenyl]amino)-4(1H)-pyrimidinone;  
3-{[4-(1,3-Benzodioxol-5-yl)-6-oxo-1,6-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;  
6-(1,3-Benzodioxol-5-yl)-2-([2-(methyloxy)phenyl]amino)-4(1H)-pyrimidinone;  
2-[(2-Chlorophenyl)amino]-6-(4-pyridinyl)-4(1H)-pyrimidinone;  
2-(1H-Indazol-6-ylamino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;  
3-{[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;  
  
2-([3-(methyloxy)phenyl]amino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;  
2-(Phenylamino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;  
Ethyl 3-{[4-oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzoate;

4-{[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;  
6-(4-Pyridinyl)-2-(4-pyridinylamino)-4(1H)-pyrimidinone; and  
N-(3-{[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}phenyl)acetamide.

11. (NEW) A method according to claim 8 wherein the mammal is a human.